

SOLAS update

Registration and abstract submission open: 8th International Symposium on Gas Transfer at Water Surfaces, 19-22 May 2020, Plymouth, UK

The SOLAS co-sponsored 8th International Symposium on Gas Transfer at Water Surfaces will be held at the Plymouth Marine Laboratory, Plymouth, United Kingdom, on **19-22 May 2020**. Bringing together approximately 150 scientists from countries all over the world, this 5-yearly symposium covers all domains where atmosphere and water meet, which include but are not limited to, fresh water, estuarine, mountain, glacial, marine (coastal and open ocean) and polar regions.

With the focused on physicochemical and biogeochemical processes that govern atmosphere-water gas exchange and fluxes, which include turbulence, shear, breaking waves, bubbles and natural and anthropogenic surfactants, the organisers welcome topics including field observations, laboratory and numerical studies, near-surface processes, biological effects including surfactants, the micro-layer, remote sensing, global scale processes and many more.

Early bird registration by **15 November 2019** [here](#).

Abstract submission by **14 February 2020** [here](#).

Limited financial support is available for early career scientists and to promote women in science.

More information on the symposium website [here](#).



Save the date: CATCH Open Science Workshop, 7-8 December 2019, University of California, Berkeley, USA

The [Cryosphere and Atmospheric Chemistry \(CATCH\)](#) project is co-sponsored by the [International Global Atmospheric Chemistry \(IGAC\)](#) project and SOLAS. The CATCH mission is to facilitate atmospheric chemistry research within the international community, with a focus on natural processes specific to cold regions of the Earth.

The CATCH Open Science Workshop will be held on **7-8 December 2019** at the University of California in Berkeley,



USA. SOLAS is one of the co-sponsors. More information will be announced soon.

Should we fertilize oceans or seed clouds? No one knows

Gather scientific evidence on the feasibility and risks of marine geoengineering to guide regulation of research, advise Philip Boyd and Chris Vivian.

The climate clock is ticking. To turn it back, the world is putting its faith in 'negative-emissions technologies'. These would suck carbon dioxide out of the atmosphere and lock it up for centuries on the land, in the sea or beneath the sea floor (see 'Marine geoengineering'). Although such technologies are yet to be developed, they are nonetheless implicit in assessments by the Intergovernmental Panel on Climate Change (IPCC). To limit warming to 1.5 °C compared to pre-industrial levels, as much as 20 billion tonnes (gigatonnes) of CO₂ might need to be removed from the atmosphere each year until 2100 (ref. 1).

Read the full comment [here](#).

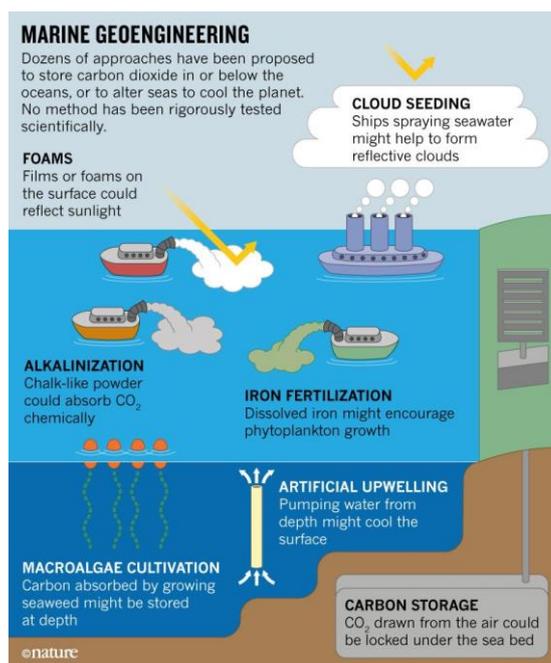
Boyd & Vivian (2019), Comment on: Should we fertilize oceans or seed clouds? No one knows, *Nature*, 570, 155-157, doi: 10.1038/d41586-019-01790-7

Last year, SOLAS published a **Position Statement on Climate Intervention**. Read the statement [here](#).

Upcoming deadlines

JUNE

- [GEOTRACES](#) is being reviewed by [SCOR](#) in the project's mid-life, to help assess the past performance of the project and plan for its future. Answer the [online survey](#) questions by **15 June 2019**, which will contribute to the ongoing review.
- Nominate candidates for EGU awards and medals by **15 June 2019** [here](#).
- Chemical Oceanography Gordon Research Conference: Discovering Chemical Processes and Mechanisms in a Changing Ocean, 14-19 July 2019, Holderness, NH, USA. Applications deadline is **15 June 2019**. More information [here](#).



Boyd & Vivian, 2019

- Goldschmidt2019, 18-23 August 2019, Barcelona, Spain. Early registration by **18 June 2019** [here](#).
- The 6th International Conference on Nitrification and Related Processes (ICoN6), 8-12 October 2019, Xiamen, China. Submit your oral abstract online by **20 June 2019** and poster abstract by **31 August 2019**. More information [here](#).
- Call for reviewer for the first-order draft (FOD) of the IPCC Working Group 1 (WG1) contribution to IPCC's Sixth Assessment Report (AR6). To review the report, register with the IPCC [here](#). Guidelines for the review are available [here](#). The deadline for review comments is **23 June 2019**.
- OceanObs'19, 16-20 September 2019, Honolulu, Hawaii, USA. Poster submission deadline extended to **27 June 2019**. More information [here](#).
- PICES 2019 Annual Meeting, 16-27 October 2019, Victoria, BC, Canada. Early registration, abstract submission, and financial support application by **30 June 2019**. More information [here](#).

JULY

- The workshop on Ocean-Atmosphere Interactions: Scoping directions for U.S. research, 1-3 October 2019, Sterling, VA, USA. The workshop is for U.S. participants only. Applications will be accepted through **1 July 2019**. More information [here](#).
- Applications are invited for groups within, or linked to CLIVAR communities across the globe to propose "Research Foci" (RF) Studies. Deadline for applications is **1 July 2019**. More information [here](#).
- The GOA-ON Implementation Strategy was officially launched at the 4th GOA-ON International Workshop, Hangzhou, China, 14-17 April 2019. Access the Implementation Strategy [here](#). The GOA-ON Executive Council welcomes any feedback by **1 July 2019** by contacting [Jan Newton](#) and the [GOA-ON Secretariat](#).
- International Conference for YOUNG Marine Researchers (ICYMARE) 2019, 24-27 September 2019, Bremen, Germany. Abstract submission till **15 July 2019**. More information [here](#).

Varia

- Upcoming events
 - 2019 SCOR Annual Meeting, **23-25 September 2019**, Toyama, Japan. More information [here](#).
 - Ocean Sciences Meeting 2020, **16-21 February 2020**, San Diego, California, USA. More information [here](#).
 - International Indian Ocean Science Conference-2020, **16-20 March 2020**, Goa, India. More information [here](#).
 - Future Earth and the Belmont Forum co-organise a conference on "Sustainability Research & Innovation 2020", **14-17 June 2020**, Brisbane, Australia. More information [here](#).
 - SCAR Open Science Conference 2020, **31 July-11 August 2020**, Hobart, Tasmania, Australia. More information [here](#).

- Published literature

- The [Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services \(IPBES\)](#) 7th plenary launched a global assessment report on biodiversity and ecosystem services. Read the report [here](#). The summary for policymakers is available [here](#).
 - The NOAA Technical Report on Installation of Autonomous Underway pCO₂ Instruments onboard Ships of Opportunity is available for reading [here](#).
- Funding opportunities
 - The Ocean Foundation (TOF) is seeking multi-year proposals under the Ocean Acidification Monitoring and Mitigation (OAMM) project for blue carbon restoration (seagrass, mangrove, or salt marsh) in the Latin American and Caribbean Region. Proposals are due by **30 June 2019**. More information [here](#).
 - The intergovernmental funding programme COST has a continuous open call for networking activities. Proposals should include networks of scientists from a minimum of 7 [COST countries](#), of which at least 3 must be [Inclusiveness Target Countries](#). Next Collection Date is **5 September 2019**. More information [here](#).
 - EUROCHAMP-2020 aims at further integrating the most advanced European atmospheric simulation chambers into a world-class infrastructure for research and innovation. Call for applications for trans-national access to simulation chambers is open all year round. More information [here](#).
 - The Science and Applications Team (SAT) for the NASA Earth-observing satellite mission, Plankton, Aerosol, Cloud, ocean Ecosystem (PACE) mission, call for proposals. More information [here](#).
 - The EU-funded [ASSEMBLE Plus](#) project is pleased to announce its fourth call for access to many of Europe's key marine biological stations. The available opportunities range from on-site access to ecosystems or experimental facilities to remote access to biological resources or data. The call will remain open until **October 2021**. More information [here](#).
- Miscellaneous
 - Six SCOR working group proposals have been submitted and are available [here](#). Reviews (instructions [here](#)) from national SCOR committees, partner organisations, and individuals are welcome by **15 August 2019**.
 - Sign up to the database of '[Request a Woman Scientist](#)', which launched in January 2018, to help to continue shaping science into a more open and more inclusive enterprise.
 - The [Global Ocean Observing System](#) (GOOS) has launched its 2030 Strategy during the recent 1st Global Planning Meeting of the UN Decade of Ocean Science for Sustainable Development, held 13-15 May in Copenhagen, Denmark. Download and read it [here](#).
 - Guidelines for holding an inclusive scientific meeting published from the organisation '500 Women Scientists' [here](#). McKinley Ocean Carbon Group released a modern carbon budgeting tool for education and outreach, which works on phones and tablets. Check it out [here](#).
 - The SCOR Working Group 149 on "[Changing Ocean Biological Systems \(COBS\)](#)" has launched a new web-based guide for multiple driver research, which is called The Multiple Environmental Driver Design Lab for Experiments (MEDDLE). Check it [here](#).

- Support the Society for Women in Marine Science (SWMS, pronounced “swims”), a volunteer-run group that promotes the status of women in all kinds of marine science careers, to pursue formal non-profit status. More information [here](#).

- Flick through some newsletters
 - CATCH newsletter: May 2019 [here](#)
 - CLIVAR May 2019 Bulletin [here](#)

 - Future Earth May newsletter [here](#)
 - GEOTRACES May e-Newsletter [here](#)
 - IIOE-2 Newsletter Volume-3, Issue-5, May, 2019 [here](#)
 - Ocean Carbon Exchange News May 30, 2019 [here](#)
 - POGO Newsletter: Issue 36 - May 2019 [here](#)

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